

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321874

Luminaire Tested: **GAN-SA0A-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29882 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

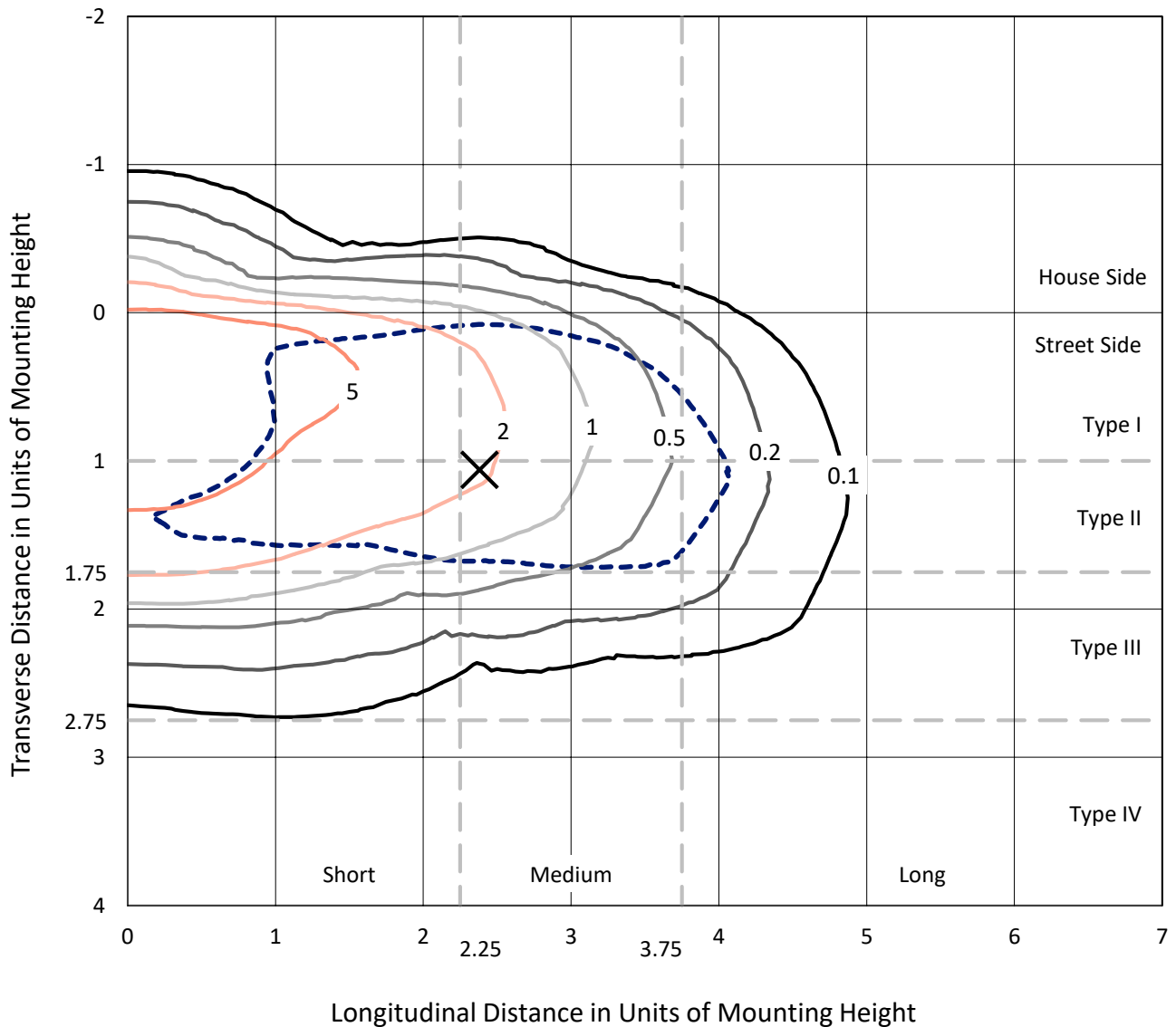
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321874
 CATALOG NUMBER: GAN-SA0A-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

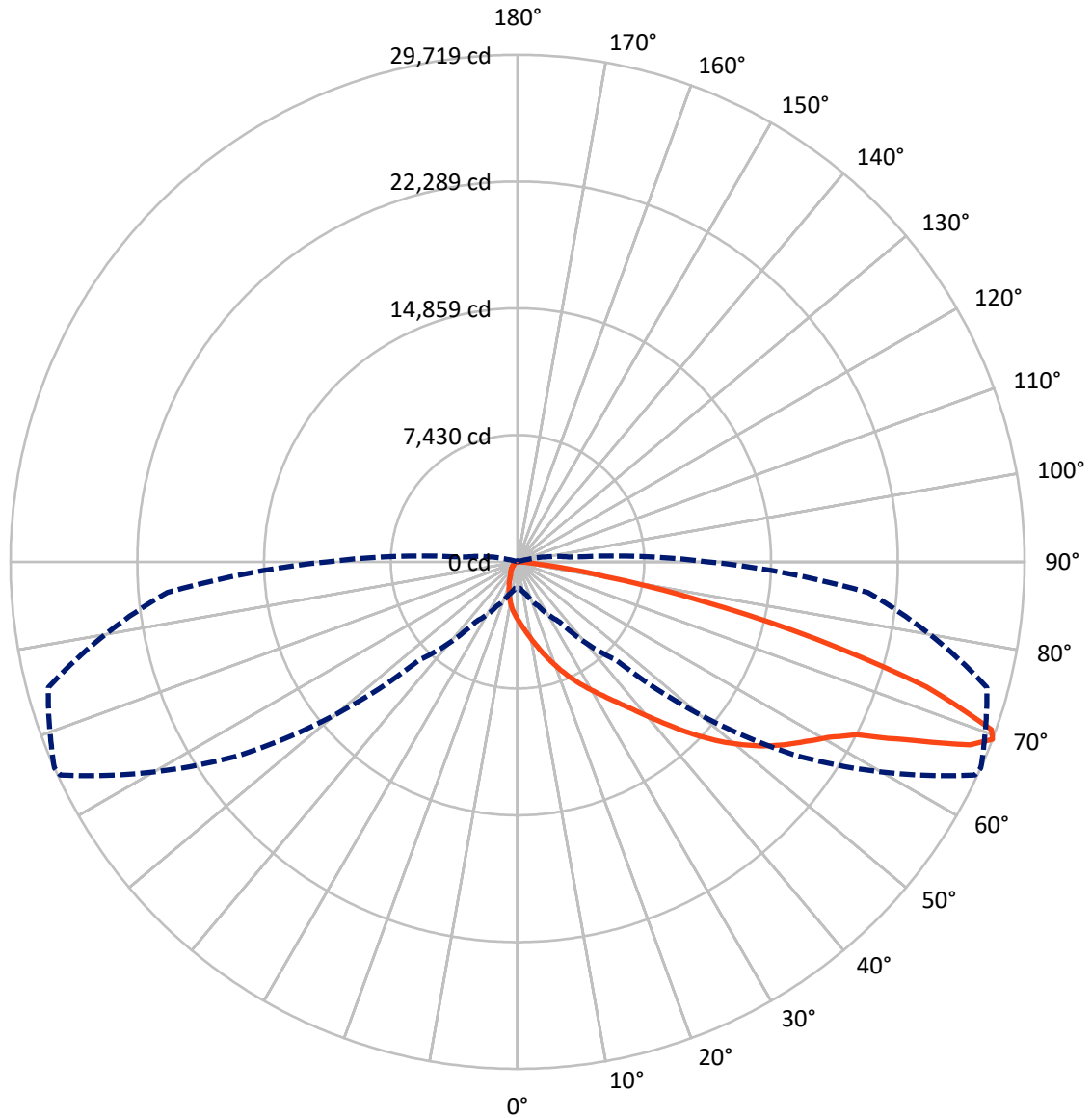
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

REPORT NUMBER: P321874
CATALOG NUMBER: GAN-SA0A-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P321874

CATALOG NUMBER: GAN-SA0A-730-U-T2-HSS

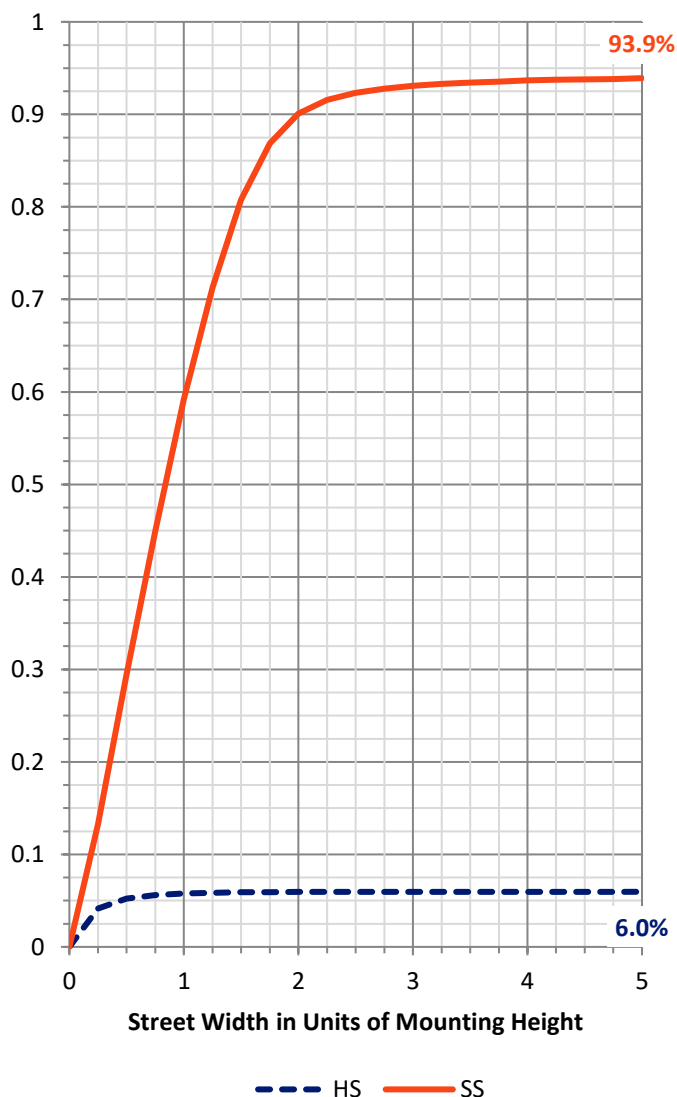
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.5	0.0	1792.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28089.5	0.0	28089.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	29882.0	0.0	29882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.7	1.1
10°-20°	978.3	3.3
20°-30°	1703.6	5.7
30°-40°	2989.0	10.0
40°-50°	5003.1	16.7
50°-60°	7354.2	24.6
60°-70°	7550.9	25.3
70°-80°	3727.7	12.5
80°-90°	246.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29882.0	100.0
0°-180°	29882.0	100.0

Coefficient of Utilization

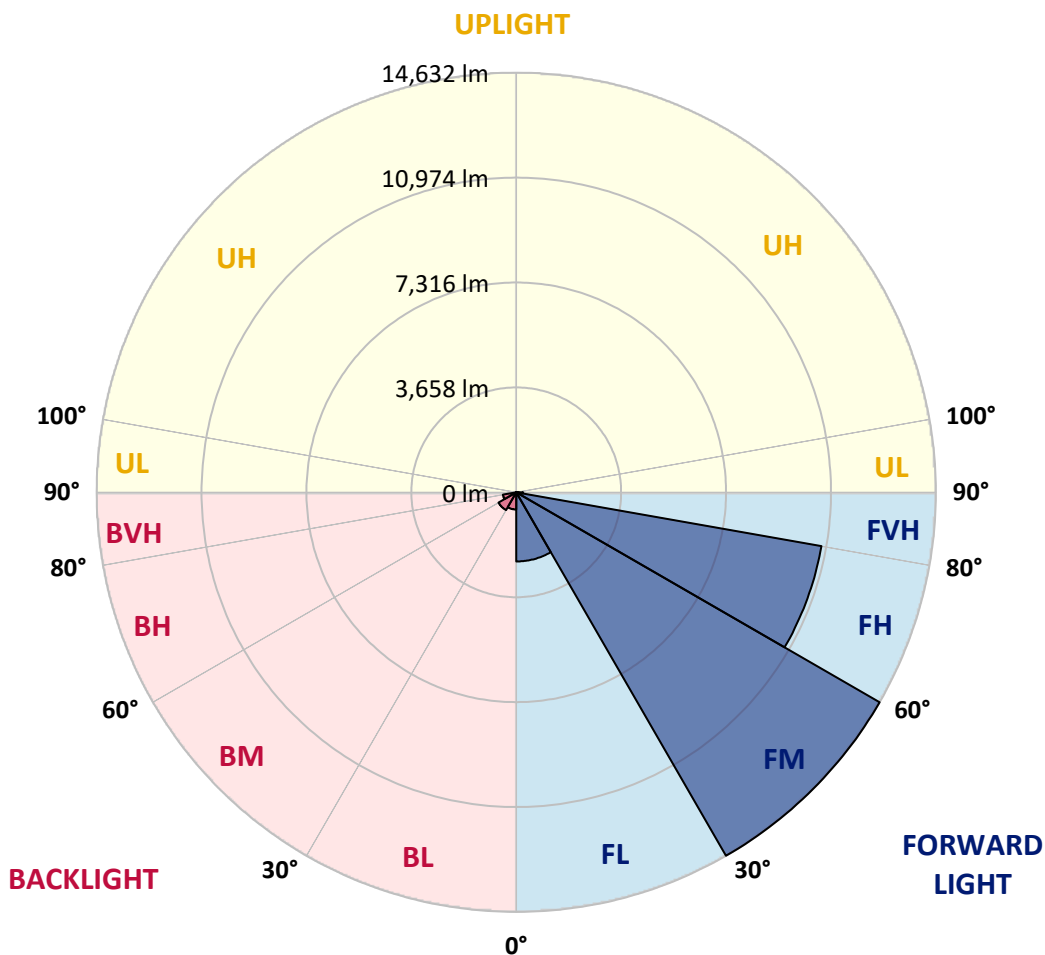


REPORT NUMBER: P321874
 CATALOG NUMBER: GAN-SA0A-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2411.2	8.1			
FM (30°-60°)	14631.7	49.0			
FH (60°-80°)	10806.1	36.2			G4/12000
FVH (80°-90°)	240.5	0.8			G3/500
BL (0°-30°)	599.5	2.0	B2/1000		
BM (30°-60°)	714.7	2.4	B1/1000		
BH (60°-80°)	472.4	1.6	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





REPORT NUMBER: P321874

CATALOG NUMBER: GAN-SAOA-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7
2.5°	4002.5	3985.4	3978.3	3947.1	3893.2	3852.0	3772.5	3680.3	3663.2	3573.8	3464.5
5°	4521.9	4507.7	4497.8	4453.8	4398.4	4294.8	4150.1	3978.3	3945.7	3775.4	3556.8
7.5°	4883.8	4909.4	4909.4	4881.0	4811.5	4733.4	4556.0	4321.8	4280.6	4019.5	3680.3
10°	5095.3	5126.5	5150.7	5174.8	5164.9	5133.6	4966.2	4702.2	4652.5	4306.2	3823.6
12.5°	5115.2	5146.4	5214.5	5315.3	5413.2	5484.2	5379.2	5123.7	5066.9	4638.3	3993.9
15°	5004.5	5037.1	5142.2	5338.0	5575.1	5782.3	5816.3	5590.7	5532.5	5034.3	4206.8
17.5°	4811.5	4832.8	4983.2	5254.3	5626.1	6006.5	6212.3	6091.7	6037.7	5487.1	4443.9
20°	4668.1	4683.7	4815.7	5106.7	5594.9	6147.0	6587.0	6623.9	6567.1	5972.5	4700.8
22.5°	4913.7	4942.0	4946.3	5084.0	5509.8	6216.6	6916.3	7147.6	7105.1	6487.7	4953.4
25°	5585.0	5617.6	5509.8	5424.6	5582.1	6247.8	7198.7	7684.1	7650.1	7042.6	5207.4
27.5°	6472.1	6506.1	6367.0	6113.0	5961.1	6365.6	7450.0	8229.2	8227.7	7630.2	5481.4
30°	7343.5	7377.6	7235.6	6981.6	6632.4	6699.1	7667.1	8799.7	8808.2	8236.3	5772.3
32.5°	8257.5	8300.1	8153.9	7827.5	7462.7	7275.4	7972.3	9373.1	9421.4	8938.8	6100.2
35°	9296.5	9302.2	9096.4	8754.3	8334.2	8046.1	8461.9	10016.1	10131.0	9808.9	6516.1
37.5°	10315.5	10356.7	10187.8	9648.5	9262.4	8936.0	9190.0	10819.4	10982.6	10871.9	7059.6
40°	11070.6	11157.2	11133.1	10551.2	10185.0	9952.2	10094.1	11774.6	11981.8	12109.6	7745.2
42.5°	11544.7	11610.0	11720.7	11370.1	11038.0	11076.3	11161.5	12887.3	13142.8	13520.4	8532.9
45°	12088.3	12119.5	12211.7	12057.0	11832.8	12218.8	12294.1	14140.6	14408.8	15037.6	9407.2
47.5°	12752.5	12826.3	12851.9	12709.9	12607.7	13229.4	13385.5	15280.3	15656.4	16662.7	10332.6
50°	13598.4	13618.3	13662.3	13570.0	13467.8	14098.0	14364.8	16476.8	16818.8	18293.5	11245.2
52.5°	14425.9	14496.8	14650.1	14591.9	14550.8	14837.5	15237.7	17555.4	17937.2	19653.2	12156.4
55°	14664.3	14725.3	15254.7	15616.7	15951.6	15748.7	16072.3	18522.0	18935.0	20868.1	13033.5
57.5°	13712.0	13835.4	14752.3	15694.7	17084.2	17165.1	17219.1	19514.1	19884.5	21799.2	13946.1
60°	11304.8	11328.9	12833.4	14450.0	16896.9	18401.4	18893.9	20580.0	20890.8	22666.4	15039.0
62.5°	7190.2	7435.8	9086.4	11368.7	14915.5	18222.5	20919.2	22192.3	22305.9	23706.7	16605.9
65°	3424.8	3583.8	4773.1	7024.2	10803.8	15933.2	22317.2	25109.0	25160.1	25769.0	18699.4
67.5°	1896.2	1972.8	2539.1	3781.0	6315.9	11267.9	21752.4	28563.6	28611.9	27875.3	20536.0
69°	1483.2	1548.5	1994.1	2850.0	4282.1	8098.6	19684.4	29575.6	29718.9	28478.5	20601.3
70°	1258.9	1322.8	1717.4	2407.2	3443.2	6257.7	17521.4	29324.4	29476.2	28421.7	20114.5
72.5°	770.7	807.6	1144.0	1694.7	2307.8	3148.0	10805.2	24799.6	25056.5	26071.3	17287.2
75°	519.5	539.3	715.3	1169.5	1650.7	1620.9	5613.4	17480.2	18036.6	20280.5	12768.1
77.5°	371.9	390.3	479.7	756.5	1156.7	1070.2	2542.0	10863.4	10982.6	12163.5	6963.1
80°	211.5	228.5	339.2	449.9	784.9	713.9	1010.5	5189.0	5248.6	5216.0	2324.8
82.5°	110.7	124.9	185.9	296.6	503.9	467.0	420.1	1737.2	1745.8	1452.0	509.5
85°	21.3	25.5	92.3	203.0	259.7	203.0	171.7	407.3	415.9	367.6	126.3
87.5°	0.0	1.4	36.9	45.4	51.1	52.5	55.4	79.5	85.2	115.0	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: GAN-SAOA-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7	3400.7
2.5°	3416.3	3365.2	3267.3	3153.7	3065.7	2979.1	2911.0	2840.0	2814.5	2801.7	2800.3
5°	3450.3	3342.5	3135.3	2922.4	2747.8	2583.1	2465.3	2353.2	2300.7	2276.6	2266.6
7.5°	3507.1	3334.0	3000.4	2675.4	2424.2	2218.4	2055.2	1933.1	1872.1	1846.5	1836.6
10°	3573.8	3322.6	2842.9	2414.2	2093.5	1880.6	1718.8	1598.1	1531.4	1503.0	1488.9
12.5°	3651.9	3302.7	2661.2	2150.3	1811.0	1598.1	1402.3	1253.3	1176.6	1144.0	1128.4
15°	3748.4	3282.9	2471.0	1901.9	1562.7	1302.9	1088.6	987.8	972.2	966.6	968.0
17.5°	3843.5	3251.6	2263.8	1656.3	1301.5	1017.6	908.4	902.7	905.5	905.5	905.5
20°	3928.7	3180.7	2038.1	1446.3	1053.1	858.7	836.0	826.0	818.9	813.3	806.2
22.5°	3995.4	3085.6	1821.0	1237.6	860.1	786.3	750.8	719.6	694.0	677.0	668.5
25°	4040.8	2959.3	1622.3	1037.5	773.5	715.3	651.5	598.9	559.2	535.1	525.1
27.5°	4074.8	2823.0	1444.9	868.6	713.9	633.0	549.3	486.8	445.7	424.4	415.9
30°	4099.0	2668.3	1288.7	763.6	647.2	546.4	457.0	396.0	366.2	354.8	349.2
32.5°	4121.7	2496.6	1141.1	713.9	584.8	467.0	383.2	336.4	317.9	303.7	299.5
35°	4178.4	2337.6	1000.6	661.4	520.9	398.8	329.3	295.2	276.8	268.2	265.4
37.5°	4313.3	2219.8	865.8	607.5	457.0	344.9	288.1	264.0	247.0	238.4	235.6
40°	4530.4	2160.2	752.2	549.3	394.6	303.7	261.2	238.4	220.0	207.2	204.4
42.5°	4849.8	2168.7	672.8	491.1	344.9	271.1	235.6	208.6	188.8	177.4	174.6
45°	5237.3	2231.2	617.4	434.3	303.7	245.5	207.2	178.8	160.4	150.4	147.6
47.5°	5657.4	2331.9	572.0	383.2	271.1	221.4	178.8	149.0	133.4	124.9	123.5
50°	6100.2	2429.9	525.1	333.5	242.7	197.3	150.4	123.5	110.7	103.6	100.8
52.5°	6548.7	2543.4	482.6	288.1	218.6	168.9	124.9	100.8	90.8	85.2	82.3
55°	7031.3	2628.6	441.4	252.6	194.4	143.4	103.6	83.7	75.2	68.1	66.7
57.5°	7599.0	2760.6	398.8	218.6	166.1	119.2	85.2	66.7	59.6	52.5	51.1
60°	8365.4	2915.3	353.4	193.0	136.3	97.9	69.5	53.9	45.4	39.7	38.3
62.5°	9376.0	3087.0	296.6	168.9	110.7	79.5	55.4	42.6	32.6	25.5	25.5
65°	10657.6	3366.6	242.7	141.9	90.8	65.3	42.6	31.2	18.5	11.4	11.4
67.5°	11405.6	3414.9	195.9	116.4	73.8	55.4	35.5	21.3	5.7	1.4	0.0
69°	11165.7	3135.3	166.1	99.4	63.9	52.5	32.6	15.6	2.8	0.0	0.0
70°	10714.4	2867.0	146.2	88.0	58.2	49.7	31.2	11.4	2.8	0.0	0.0
72.5°	8853.7	2041.0	110.7	65.3	42.6	44.0	28.4	7.1	2.8	0.0	0.0
75°	6449.3	1240.5	79.5	45.4	27.0	32.6	19.9	2.8	1.4	0.0	0.0
77.5°	3588.0	584.8	49.7	25.5	17.0	19.9	9.9	0.0	0.0	0.0	0.0
80°	1165.3	159.0	22.7	14.2	9.9	11.4	4.3	0.0	0.0	0.0	0.0
82.5°	215.7	45.4	12.8	7.1	2.8	2.8	0.0	0.0	0.0	0.0	0.0
85°	46.8	18.5	7.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)